

WHAT IS CLAIMED IS:

1. An isolated nucleic acid encoding a polypeptide or a degenerate sequences thereof, wherein the polypeptide is the amino acid sequence of SEQ ID NO:1.

5

2. An isolated nucleic acid encoding a polypeptide or a degenerate sequences thereof, wherein the polypeptide is the amino acid sequence of SEQ ID NO:2.

10

3. An isolated nucleic acid encoding a polypeptide or a degenerate sequences thereof, wherein the polypeptide is the amino acid sequence of SEQ ID NO:3.

4. The isolated nucleic acid as claimed in claim 1, which is SEQ ID NO:4.

5. The isolated nucleic acid as claimed in claim 2, which is SEQ ID NO:5.

15

6. The isolated nucleic acid as claimed in claim 3, which is SEQ ID NO:6.

7. An expression vector containing the nucleic acid sequences as claimed in claim 1.

20

8. An expression vector containing the nucleic acid sequences as claimed in claim 2.

25

9. An expression vector containing the nucleic acid sequences as claimed in claim 3.

10. A host cell containing the vector of claim 7.

11. A host cell containing the vector of claim 8.

30

12. A host cell containing the vector of claim 9.

13. A method for producing a polypeptide that contains the amino acid sequence of SEQ ID NO:1, the method comprising the steps of:

5 (a) culturing the host cell of claim 10 under conditions suitable for the expression of the polypeptide; and

(b) recovering the polypeptide from the host cell culture.

14. A method for producing a polypeptide that contains the amino acid sequence of SEQ ID NO:2, the method comprising the steps of:

10 (a) culturing the host cell of claim 11 under conditions suitable for the expression of the polypeptide; and

(b) recovering the polypeptide from the host cell culture.

15. A method for producing a polypeptide that contains the amino acid sequence of SEQ ID NO: 3, the method comprising the steps of:

(a) culturing the host cell of claim 12 under conditions suitable for the expression of the polypeptide; and

(b) recovering the polypeptide from the host cell culture.

20 16. A transgenic animal, which is introduced with a gene fragment containing the nucleic acid sequence of SEQ ID NO:4.

25 17. A transgenic animal, which is introduced with a gene fragment containing the nucleic acid sequence of SEQ ID NO:5.

18. A transgenic animal, which is introduced with a gene fragment containing the nucleic acid sequence of SEQ ID NO:6.